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## UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| politi to a collection of intorn | audi unless it displays a valid OMB control number |
|----------------------------------|--|
| Attorney Docket No.              | 040020   |
| First Inventor                   | Robert A. Ashworth                                 |
| Title                            | COAL GASIFICATION CHI ALKAI                        |
| Express Mail Label No.           | EV 369815604 US                                    |

|   | <del></del>   | T Property of the Potential  |           |  |  |  |  |  |
|---|---|--|-----------|--|--|--|--|--|
| See MPEP  | APPLICATION ELEMENTS chapter 600 concerning utility patent application contents.  | ADDRESS TO: Commissioner for Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450   |           |  |  |  |  |  |
| 1. Example: Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27.  Specification [Total Pages   10 ] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure  4. Example: Total Sheets   2  5. Oath or Declaration (unsigned)  Total Sheets   2  2 | init an original and a duplicate for fee processing) cant claims small entity status.  37 CFR 1.27.  ification [Total Pages 10]  irred arrangement set forth below) criptive title of the invention is Reference to Related Applications ement Regarding Fed sponsored R & D erence to sequence listing, a table, computer program listing appendix iground of the Invention Summary of the Invention Description of the Drawings (if filed) iiled Description in(s) ract of the Disclosure  ing(s) (35 U.S.C. 113) [Total Sheets 2 ]  claration unsigned [Total Sheets 2 ] | 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Reader Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. Paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS  9. Assignment Papers (cover sheet & document(s))  10. 37 CFR 3.73(b) Statement Power of (when there is an assignee)  11. English Translation Document (if applicable)  12. Information Disclosure Copies of IDS | 10/757331 |  |  |  |  |  |
| b. Cop  | py from a prior application (37 CFR 1.63(d)) or continuation/divisional with Box 18 completed)  DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  Dication Data Sheet. See 37 CFR 1.76  | Statement (IDS)/PTO-1499 Citations Preliminary Amendment Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  |           |  |  |  |  |  |
| 18. If a CONT   | INI IING APPLICATION check appropriate box, and su  | pply the requisite information below and in the first sentence of the  |           |  |  |  |  |  |
| specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) Of prior application No.:  Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an eath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has the submitted application parts.   |   |  |           |  |  |  |  |  |
|   | 19. CORRESTON   | CENCE ADDRESS  |           |  |  |  |  |  |
| Custome   | er Number or Bar Code Label 234   | OR SEE Correspondence address bell   | low       |  |  |  |  |  |
| Name  | Michael G. Panian, Esq.   |  |           |  |  |  |  |  |
| Address   | One Oxford Centre, 20th Floor   |  | _         |  |  |  |  |  |
|   | 301 Grant Street  |  | _         |  |  |  |  |  |
| City  | Pittsburgh  | State PA Zip Code 15219  |           |  |  |  |  |  |
| Country   | ODA   | Felephone 412-562-3743 Fax 562-1041  | <u>-</u>  |  |  |  |  |  |
| Name (Print/Ty  | Michael Garanyan  | Registration No. (Attorney/Agent) 32,623 Date  |           |  |  |  |  |  |
| Signature   | M Land & land   | Date // W/ m   | 1.        |  |  |  |  |  |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)

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|   | FEE TRANSMITTAL                      |                      | Complete if Known   |        |  |  |  |  |
|---|--------------------------------------|----------------------|---------------------|--------|--|--|--|--|
| O   | FEE IRANS                            | DIVITIAL             | Application Number  |        |  |  |  |  |
| 3   | 4                                    |                      | Filing Date         |        |  |  |  |  |
| Fifective 10/01/2003. Patent fees are subject to annual revision. |                                      | First Named Inventor | Robert A. Ashworth  |        |  |  |  |  |
|   |                                      |                      | Examiner Name       |        |  |  |  |  |
| A <sub>F</sub>  | oplicant claims small entity status. | See 37 CFR 1.27      | Art Unit            |        |  |  |  |  |
| тот   | AL AMOUNT OF PAYMENT                 | (\$) 385.00          | Attorney Docket No. | 040020 |  |  |  |  |

| METHOD OF DAVMENT (shook all the dame to  | FFE CALCULATION (continued) |                             |             |             |  |  |  |
|---|-----------------------------|-----------------------------|-------------|-------------|--|--|--|
| METHOD OF PAYMENT (check all that apply)  | FEE CALCULATION (continued) |                             |             |             |  |  |  |
| X Check Credit card Money Order None  | 3. ADDITIONAL FEES          |                             |             |             |  |  |  |
| Deposit Account:  |                             | Large Entity   Small Entity |             |             |  |  |  |
| Deposit Account BUCHANAN INGERSOLL, P.C.  | Fee<br>Code                 | Fee<br>(\$)                 | Fee<br>Code | Fee<br>(\$) | Fee Description  | Fee Paid_  |  |
| Account Number BUCHARAN INGERSULL, F.C.   | 1051                        | 130                         | 2051        | 65          | Surcharge - late filing fee or oath  |  |  |
| Deposit<br>Account 02–4553  |                             |                             | 2052        | 25          | Surcharge - late provisional filing fee or cover sheet                     |  |  |
| Name  | 1053                        | 130                         | 1053        | 130         | Non-English specification  |  |  |
| The Director is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments | 1812                        |                             | 1812        |             | For filing a request for ex parte reexamination                            |  |  |
|   | 1804                        | 920*                        | 1804        | 920*        | Requesting publication of SIR prior to                                     |  |  |
|   | 4005                        | 4 0 4 0 *                   | 4005        | 4 0 40*     | Examiner action  |  |  |
| Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account.            | 1805                        | 1,840*                      | 1805        | 1,840*      | Requesting publication of SIR after<br>Examiner action                     |  |  |
| FEE CALCULATION   | 1251                        | 110                         | 2251        | 55          | Extension for reply within first month                                     |  |  |
| 1. BASIC FILING FEE   | 1252                        | 420                         | 2252        | 210         | Extension for reply within second month                                    | <b> </b>   |  |
| Large Entity Small Entity   | 1253                        | 950                         | 2253        | 475         | Extension for reply within third month                                     |  |  |
| Fee Fee Fee Fee Fee Paid Code (\$) Code (\$)  | 1254                        | 1,480                       | 2254        | 740         | Extension for reply within fourth month                                    |  |  |
| 1001 770 2001 385 Utility filing fee  | 1255                        | 2,010                       | 2255        | 1,005       | Extension for reply within fifth month                                     |  |  |
| 1002 340 2002 170 Design filing fee   | 1401                        | 330                         | 2401        | 165         | Notice of Appeal   |  |  |
| 1003 530 2003 265 Plant filing fee  | 1402                        | 330                         | 2402        | 165         | Filing a brief in support of an appeal                                     |  |  |
| 1004 770 2004 385 Reissue filing fee  | 1403                        | 290                         | 2403        | 145         | Request for oral hearing   |  |  |
| 1005 160 2005 80 Provisional filing fee   | 1451                        | 1,510                       | 1451        | 1,510       | Petition to institute a public use proceeding                              |  |  |
| SUBTOTAL (1) (\$) 385.00  | 1452                        | 110                         | 2452        | 55          | Petition to revive - unavoidable   |  |  |
|   | 1453                        | 1,330                       | 2453        | 665         | Petition to revive - unintentional   |  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE   | 1501                        | 1,330                       | 2501        | 665         | Utility issue fee (or reissue)   |  |  |
| Extra Claims below Fee Paid  Total Claims 2 -20** = X =   | 1502                        | 480                         | 2502        |             | Design issue fee   | <u> </u>   |  |
| Independent   | 1503<br>1460                | 640                         | 2503        |             | Plant issue fee  | <u> </u>   |  |
| Claims L2 - 3** = X = X Multiple Dependent  |                             | 130                         | 1460        |             | Petitions to the Commissioner  |  |  |
|   | 1807                        | 50                          | 1807        | _           | Processing fee under 37 CFR 1.17(q)  | <del>                                     </del> |  |
| Large Entity   Small Entity   | 1806                        | 180                         | 1806        |             | Submission of Information Disclosure Stmt                                  | <b> </b>   |  |
| Code (\$) Code (\$)   | 8021                        | 40                          | 8021        | 1 40        | Recording each patent assignment per property (times number of properties) |  |  |
| 1202 18 2202 9 Claims in excess of 20   | 1809                        | 770                         | 2809        | 385         | Filing a submission after final rejection                                  |  |  |
| 1201 86 2201 43 Independent claims in excess of 3   | 4045                        |                             |             |             | (37 CFR 1.129(a))  | $\vdash$   |  |
| 1203 290 2203 145 Multiple dependent claim, if not paid   | 1810                        | 770                         | 2810        | 385         | For each additional invention to be examined (37 CFR 1.129(b))             | <b></b>  |  |
| 1204 86 2204 43 ** Reissue independent claims over original patent  | 1801                        | 770                         | 2801        | 385         | Request for Continued Examination (RCE)                                    | [ ]  |  |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent                                     | 1802                        | 900                         | 1802        | 900         | Request for expedited examination of a design application                  |  |  |
| SUBTOTAL (2) (\$)   | Other fee (specify)         |                             |             |             |  |  |  |
| **or number previously paid, if greater; For Reissues, see above  | *Redu                       | ced by                      | Basic I     | Filing F    | ee Paid SUBTOTAL (3) (\$)  |  |  |

| SUBMITTED BY      |                   | (Complete (if applicable))        |        |                        |         |   |
|-------------------|-------------------|-----------------------------------|--------|------------------------|---------|---|
| Name (Print/Type) | Michael G. Panian | Registration No. (Attorney/Agent) | 32,623 | Telephone 412-562-3743 |         |   |
| Signature         | Michael & Caman   |                                   |        | Date                   | 1/14/04 | _ |

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## ATTORNEY'S DOCKET NO. CERTIFICATE OF MAILING BY "EXPRESS MAIL" UNDER 040020 37 CFR 1.10 - SEPARATE PAPER IN RE APPLICATION OF Robert A. Ashworth SERIAL NUMBER FILED FOR COAL GASIFICATION WITH ALKALI ADDITIVES TO REDUCE EMISSIONS OF MERCURY TO THE ATMOSPHERE GRP. ART UNIT **EXAMINER** EV 369815604 US Express Mail" mailing label number: January 14, 2004 Date of deposit: I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Michael G. Panian (Typed or printed name of person mailing paper or fee)